May. 31. 2005 3:45PM INGRASSIA FISHER & LORENZ PC

No. 0085 P. 12

App. No. 09/760,212 Reply to Ex Parte Quayle Action of May 18, 2005

Amendments to the Specification

Page 29, lines 3 to 16:

Abstract

An external defibrillator/pacer (8) includes an output circuit (14) with four legs arrayed to form an H-bridge. Each leg of the output circuit contains a switch (SW1-SW4). In a defibrillation mode, pairs of switches in the H-bridge are selectively switched to generate a biphasic defibrillation pulse. Three switches (SW1, SW3, SW4) are silicon controlled rectifiers (SCRs). Gate drive circuits (51, 53, 54) are coupled to the SCRs to bias the SCRs with a voltage that allows the SCRs in response to control signals. One switch (SW2) includes an insulated gate bipolar transistor (IGBT). A gate drive circuit (52) is coupled to the gate of the IGBTs to provide a slow turn-on and a fast turn-off of the IGBT. In a pacing mode, a bypass circuit or current source circuit is used to provide a current path bypassing an SCR switch (SW3), which cannot be triggered by the relatively low current of pacing pulses. One of the SCRs (SW4) may be replaced with an IGBT to allow generation of the pacing pulse with opposite polarity of the first phase of the defibrillation pulse.